

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



Office of Pesticide Programs

**MEMORANDUM**

10/8/2020

**SUBJECT:** Product Chemistry Review for **Bionix ABQ80** EPA Reg. No.: **89110-GT**

**FROM:** Lindsay O'Dell

Chemistry and Toxicology Team  
Product Science Branch  
Antimicrobials Division (7510P)

Registrant: Isomeric  
Industries  
Action code: A531

Agency Due Date:  
10/13/2020

DP No.: 458025

Submission No.: 1050829

E-Sub No.: 49503

Classification: EP

Process: Nonintegrated  
system

Pesticide type:  
Antimicrobial

**THRU:** Karen P. Hicks, Team Leader 10/13/2020

Chemistry and Toxicology Team  
Product Science Branch  
Antimicrobials Division (7510P)

**TO:** Eric Miederhoff, PM Team 31 / Karen Leavy  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

MRID(s):--

Formulation from label			
PC code(s)	CAS #(s)	Active Ingredient(s)	% weight
069105	68989-01-5	Alkyl (50%C <sub>14</sub> , 40%C <sub>12</sub> , 10%C <sub>16</sub> ) dimethyl benzyl ammonium chloride	80%
		Other Ingredients	20%
		Total	100%

## I. BACKGROUND

The Registrant, Isomeric Industries, has submitted an application for pesticide registration for their product: Bionix ABQ80 EPA Reg. No. 89110-GT. To fulfill the product chemistry data requirements, several studies were selectively cited (MRID 50092002, 50092001, 49799102). [REDACTED] The proposed product is to be used in industrial wastewater treatment applications, in oil and gas applications, wood preservatives, and as an algaecide in swimming pools.

## II. RELEVANT DOCUMENTS

	RECEIVED	N/A
EPA FORM 8570-27 – Formulator’s Exemption Statement	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EPA FORM 8570-35 – Data Matrix (4/21/2020)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cover letter (4/21/2020)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Transmittal document	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proposed CSF BASIC, (4/21/2020)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proposed label, (4/21/2020)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Certification for Pilot Fragrance Notification Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
Comments:		

## III. FINDINGS

### a. Product Formulation:

	TGAI	MUP	EUP	Food use	Non-food use
Non-integrated	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Active Ingredients(s)	Nominal		Upper limit	Lower limit	
Alkyl (50%C <sub>14</sub> , 40%C <sub>12</sub> , 10%C <sub>16</sub> ) dimethyl benzyl ammonium chloride	100*		100*	100*	
*nominal concentration not provided					
	YES		NO	N/A	
1. The certified limits of all ingredients are within 40 CFR standard certified limits.	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	

2. Wider certified limits were requested and rationale was accepted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. The nominal concentration(s) of the active ingredient is in agreement with the label.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. The chemical IDs and analytical information for density, pH, and flammability are consistent with Series 830 Group B data.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. All inert ingredients are approved for non-food use pesticide formulations.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. The impurities present >0.1% are identified.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Impurities of toxicological significance have an upper certified limit.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## b. Product Label:

	Yes	NO	N/A
<i>The formula contains one of the following:</i>			
1. 10% or more of petroleum distillate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. 1.0% or more of methyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sodium nitrite at any level	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. A toxic list 1 inert at any level	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Arsenic in any form	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. If yes to 1-5, then the inert ingredient list contains a relevant footnote	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Appropriate warning statements regarding flammability or explosive characteristics of the product are included on the label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. The storage and disposal instructions for the pesticide container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. The product requires an expiration date at which time the nominal concentration falls below the lower certified limit.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## IV. Additional Findings

- Two amended CSF's (both dated 9/30/2020) were submitted to address the findings in the previous chemistry review dated 9/10/2020. The proposed product is identical to [REDACTED]. The alternate source products are listed on the proposed alternate CSF #1.

- [REDACTED]



## **V. Conclusion**

The proposed basic CSF and alternate CSF #1 (9/30/2020) are acceptable.

**CONFIDENTIAL ATTACHMENT – NOTE TO PM**

FORMULATIONS OF SOURCE PRODUCTS:

